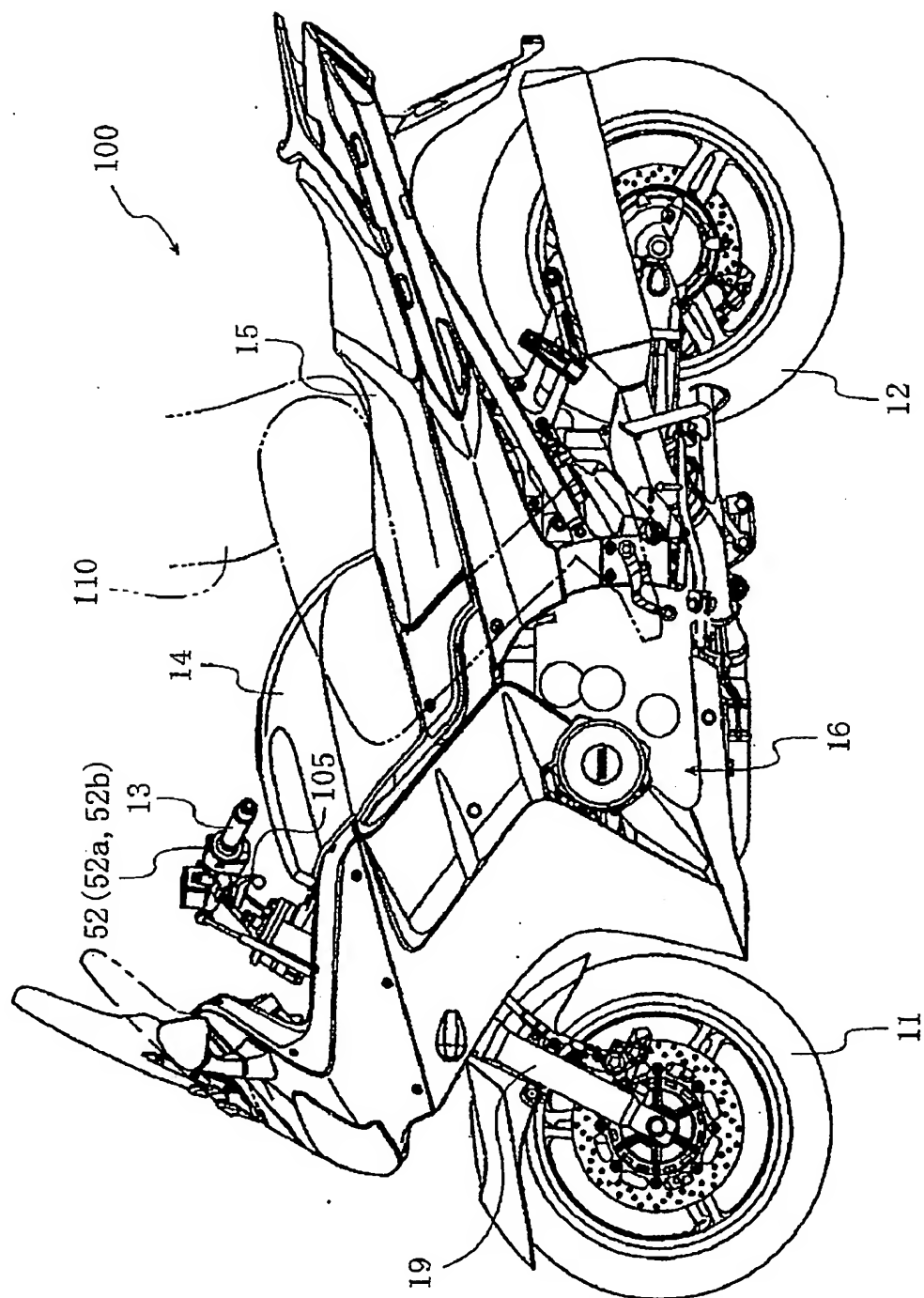
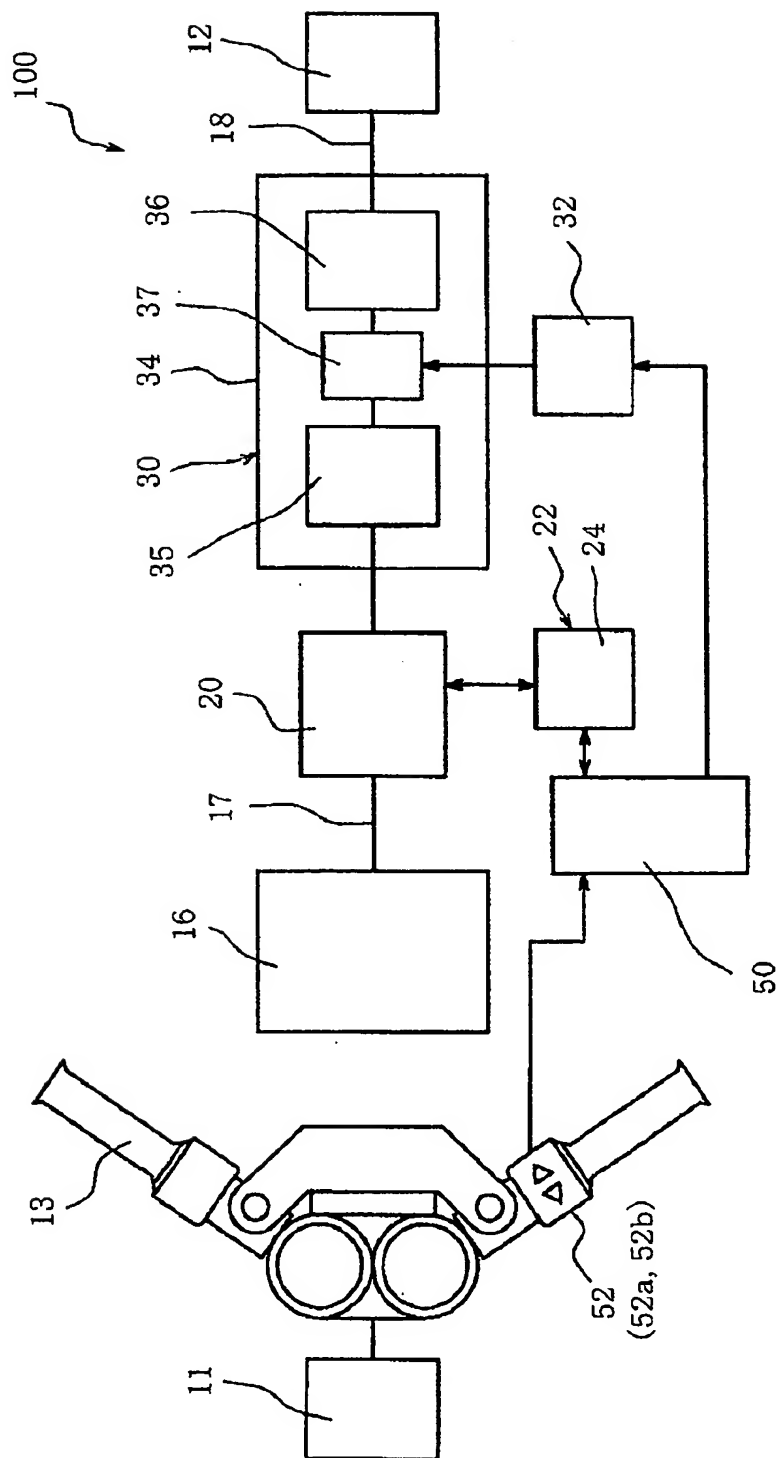


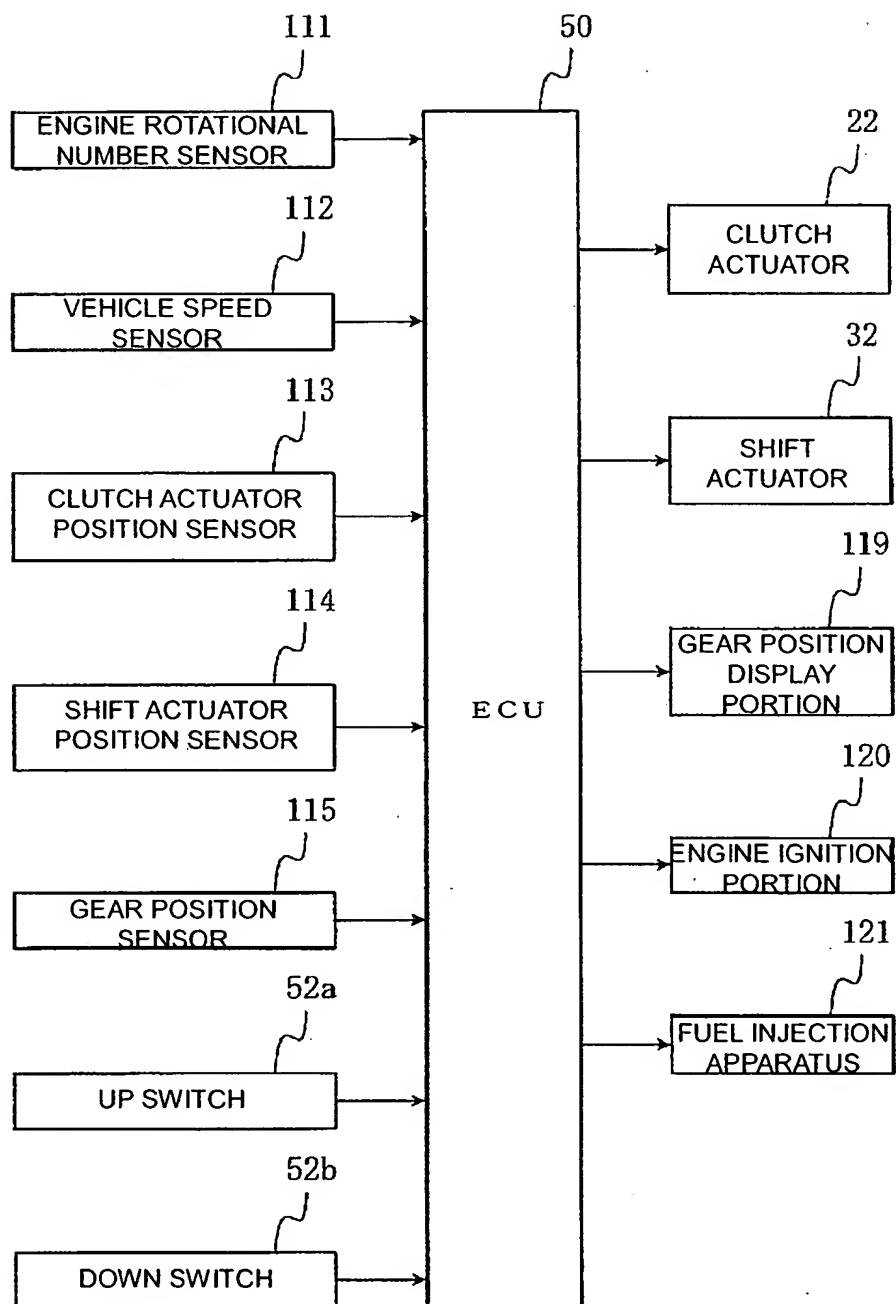
[Fig. 1]



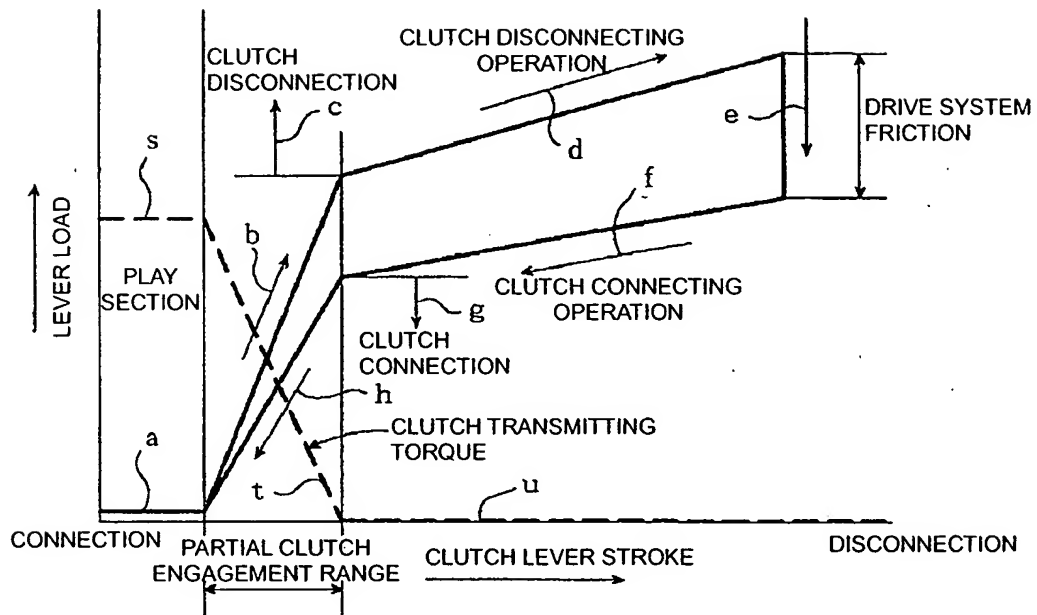
[Fig. 2]



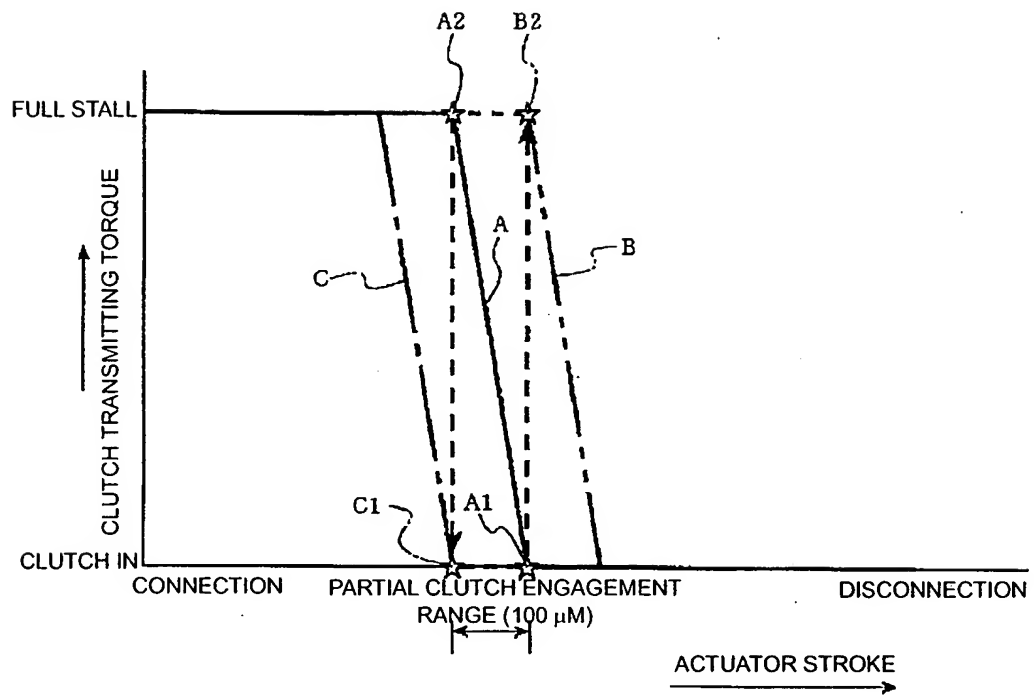
[Fig. 3]



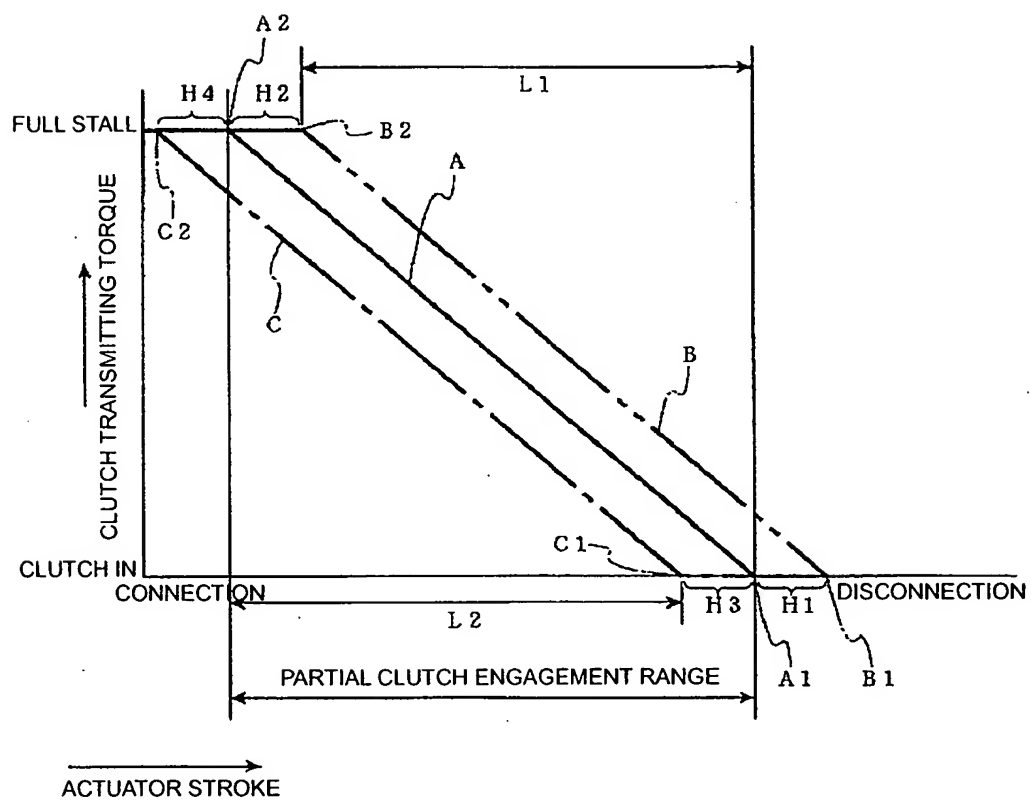
[Fig. 4]



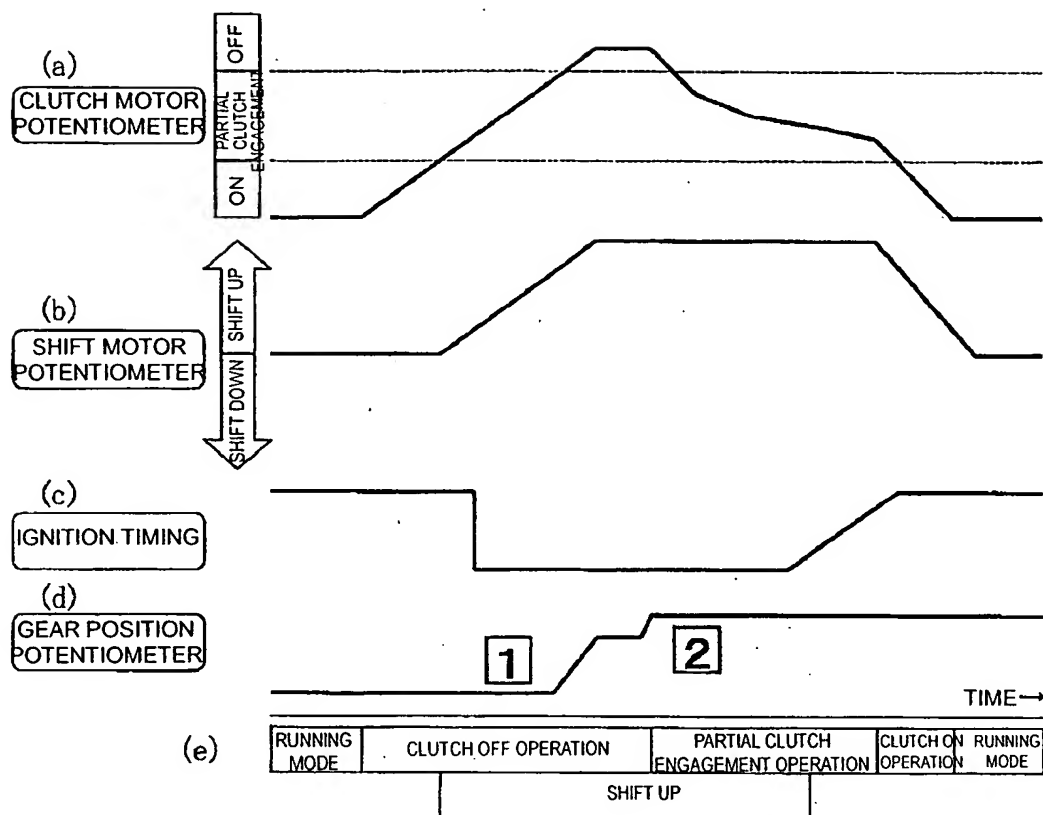
[Fig. 5]



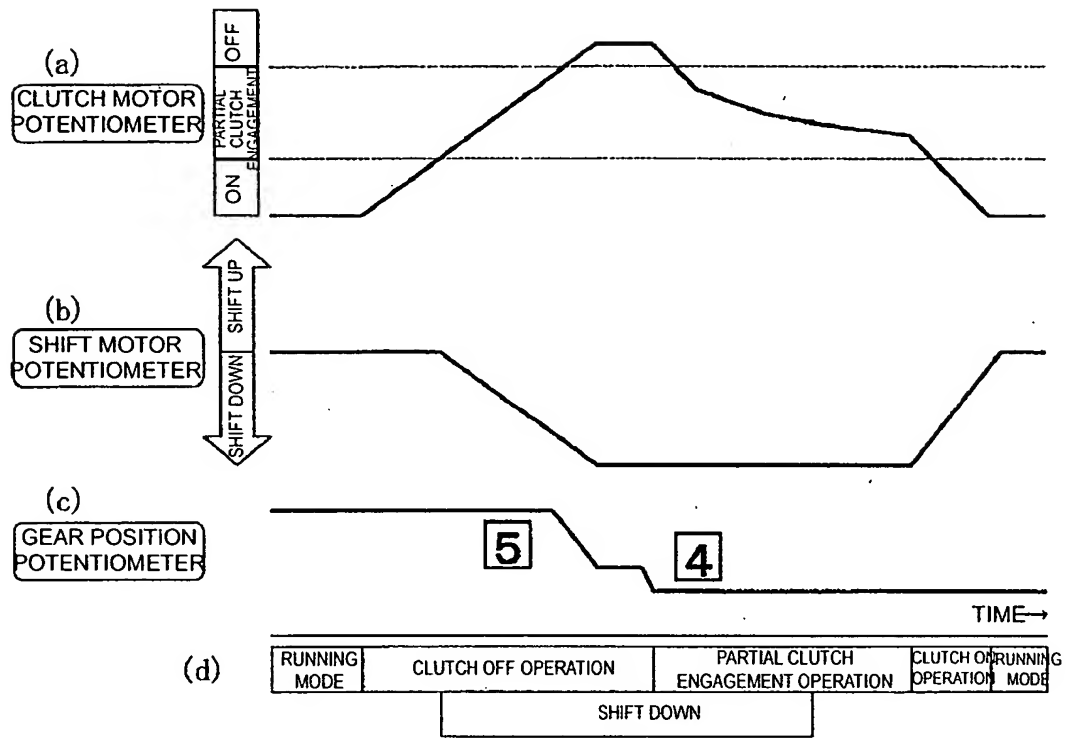
[Fig. 6]



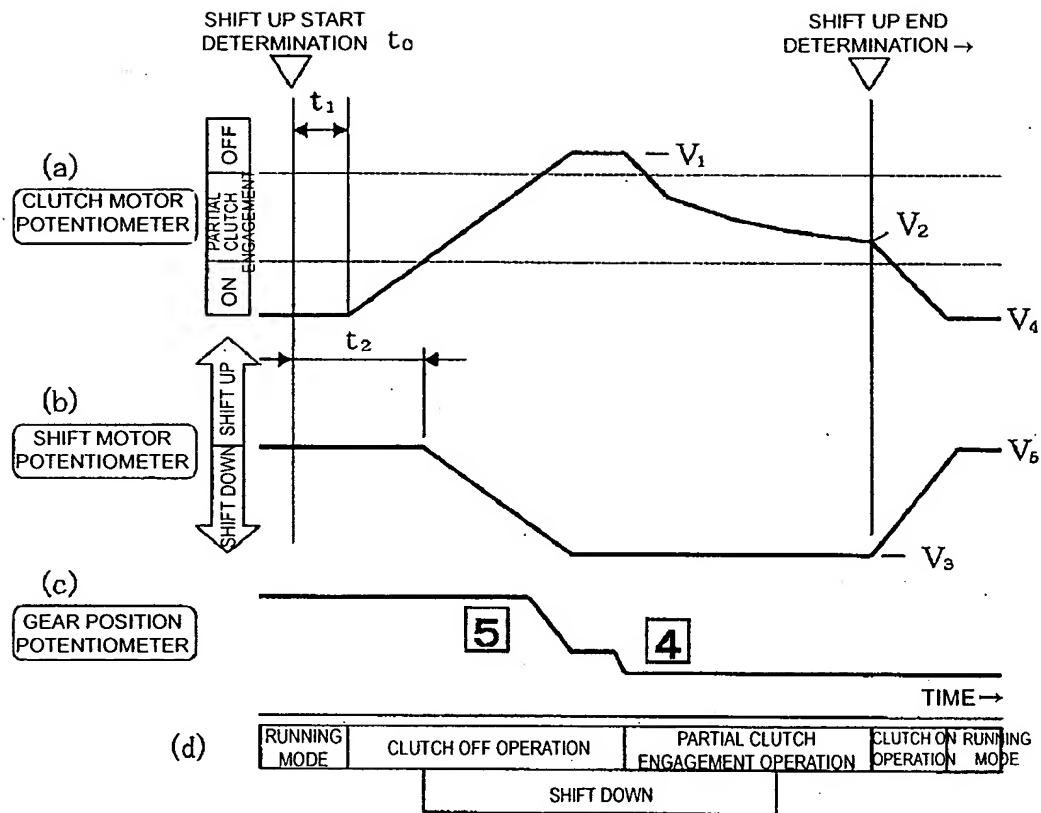
[Fig. 7]



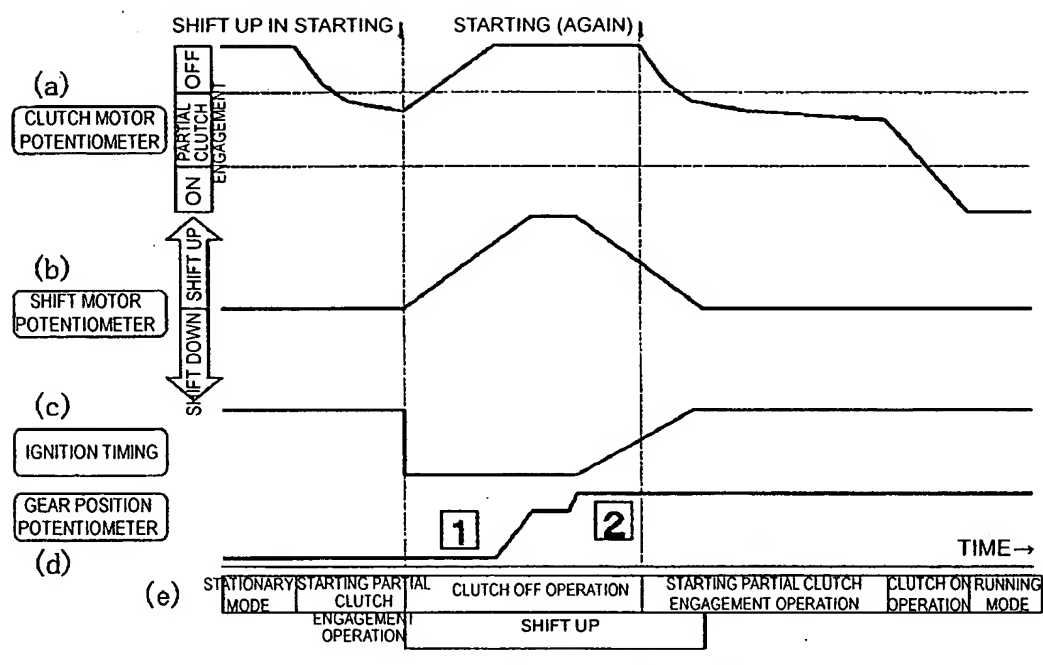
[Fig. 8]



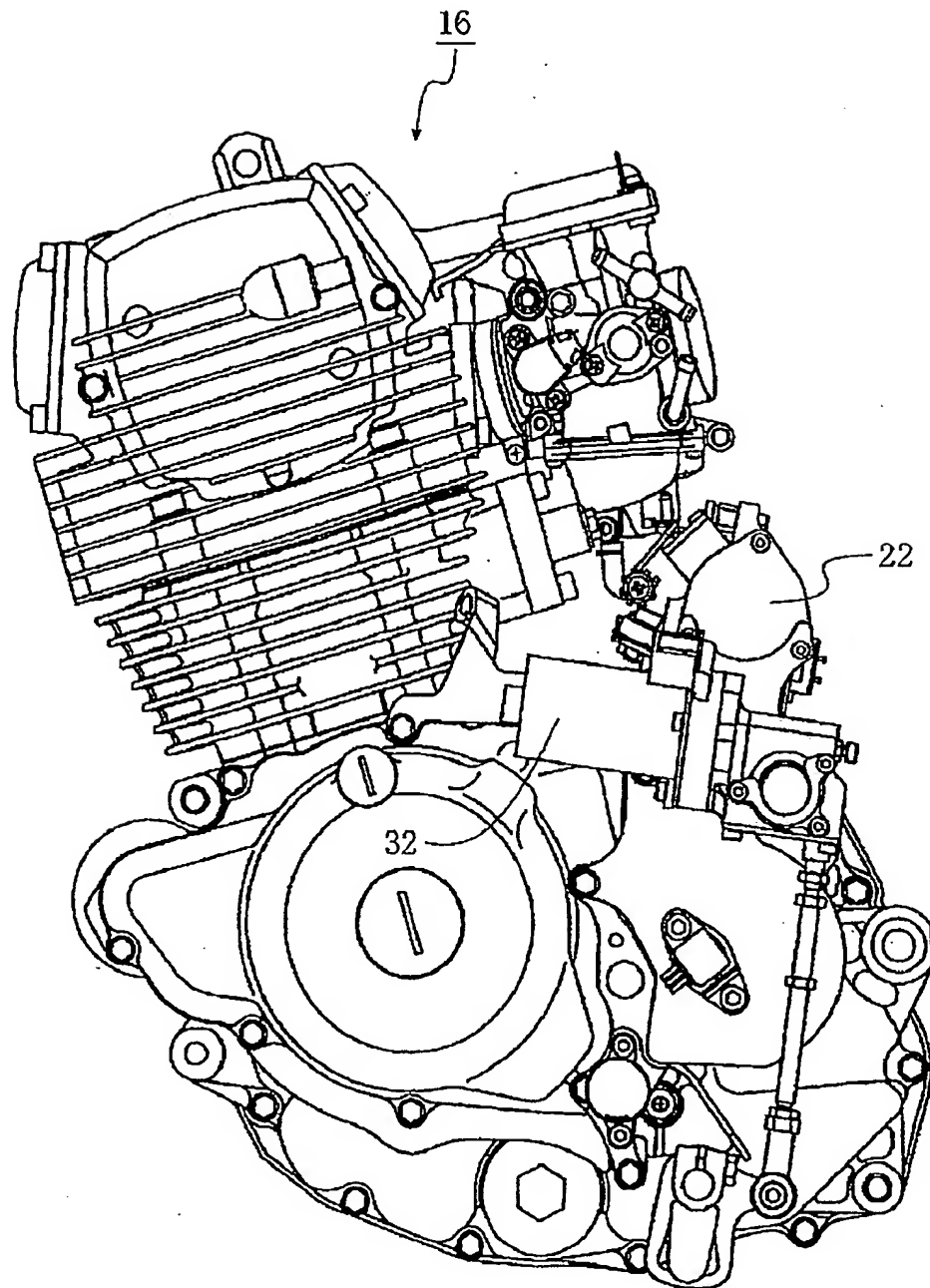
[Fig. 9]



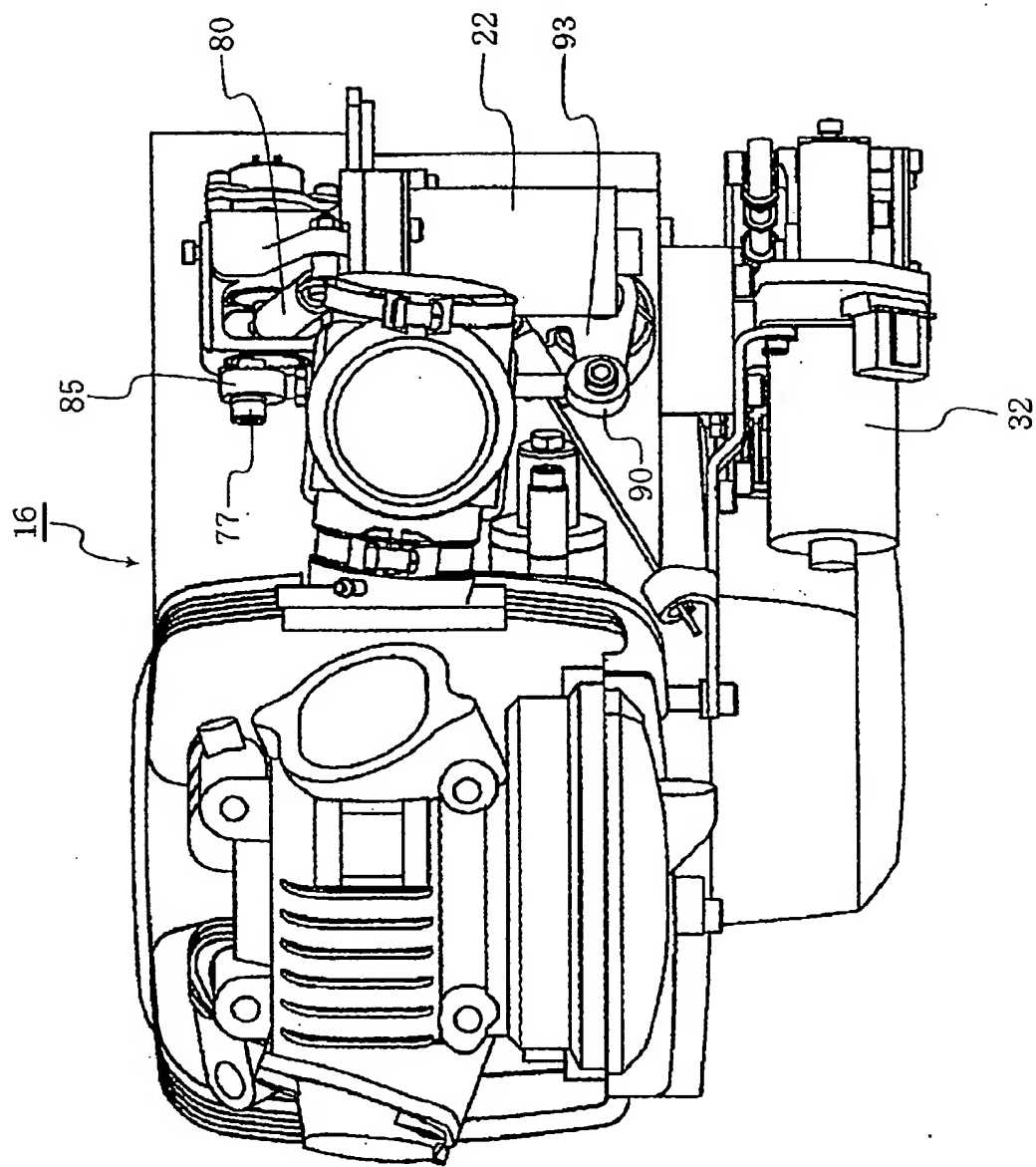
[Fig. 10]



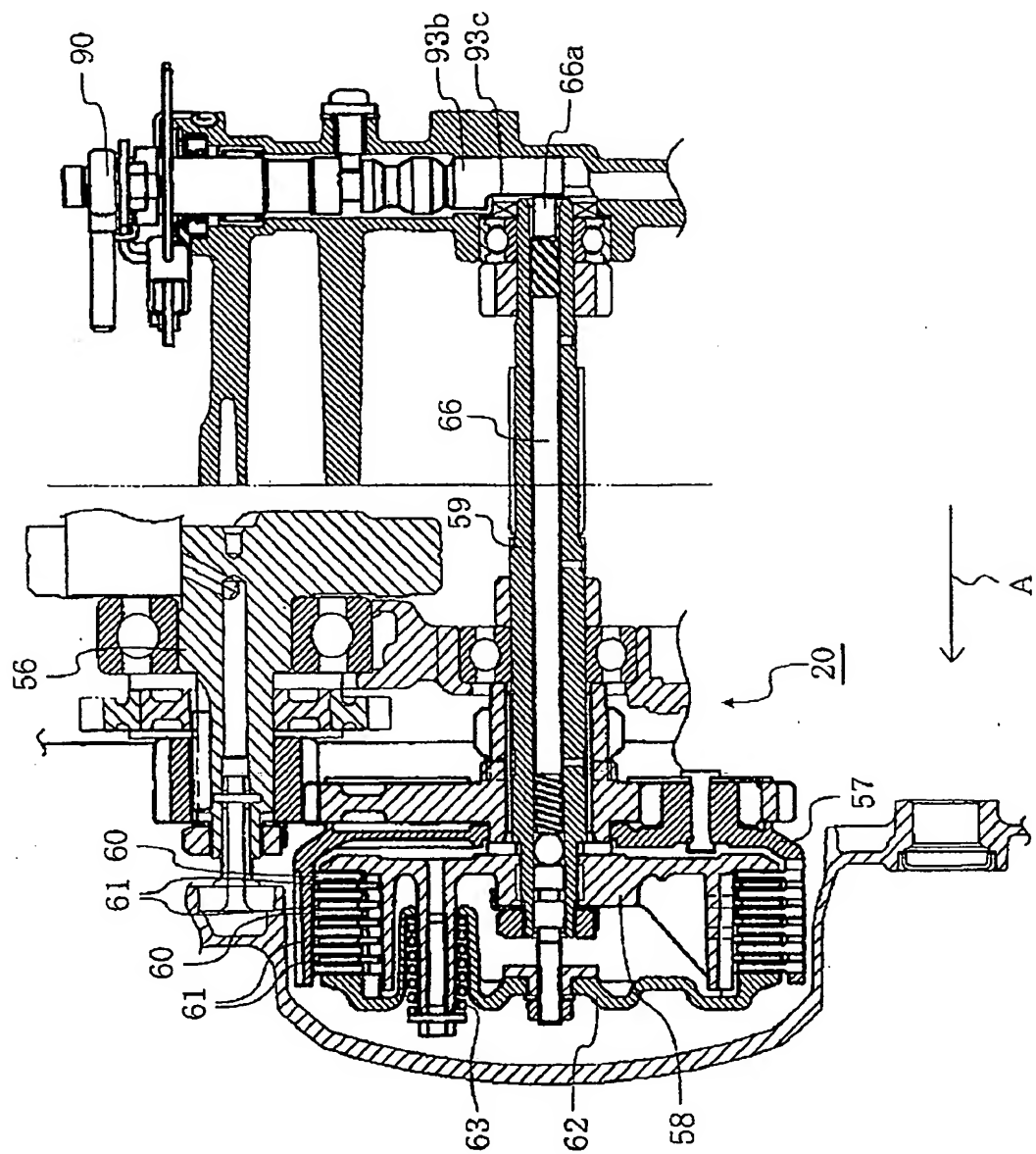
[Fig. 11]



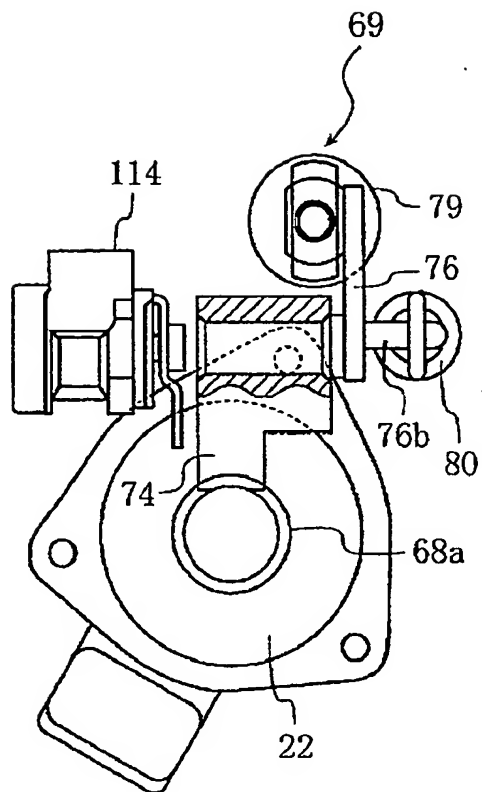
[Fig. 12]



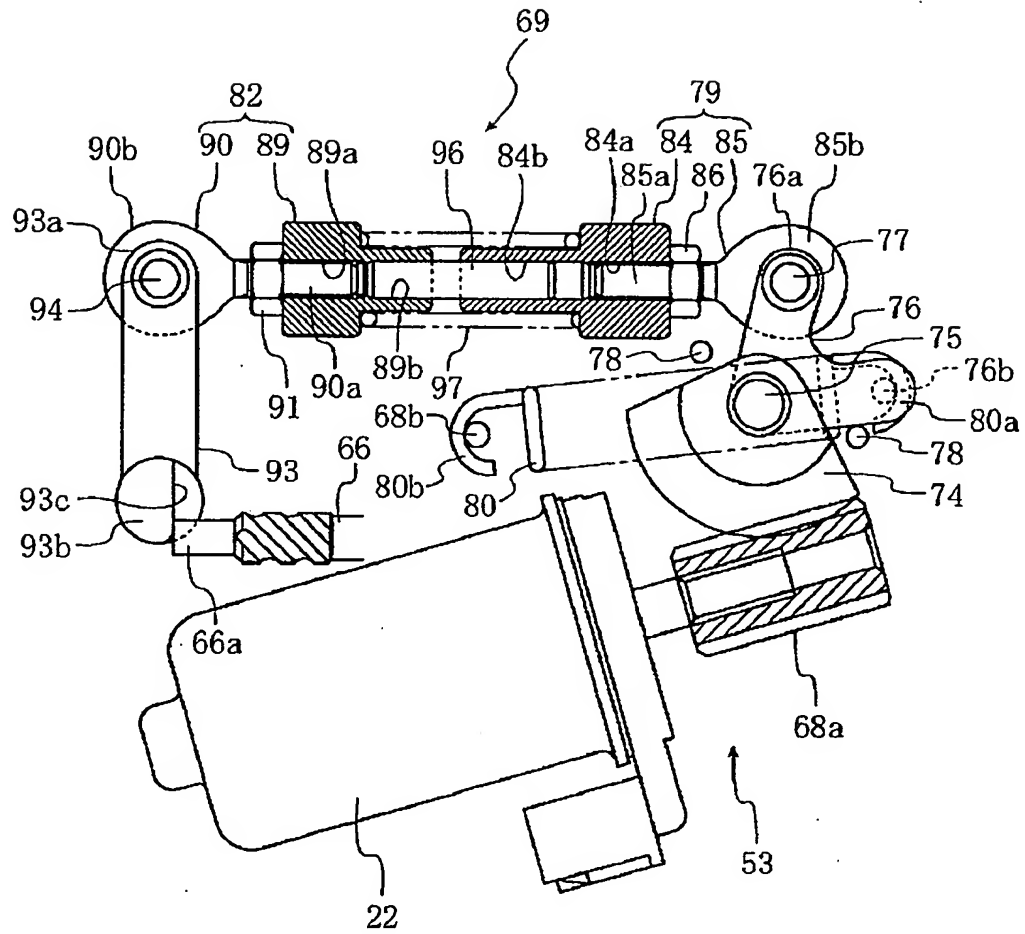
[Fig. 13]



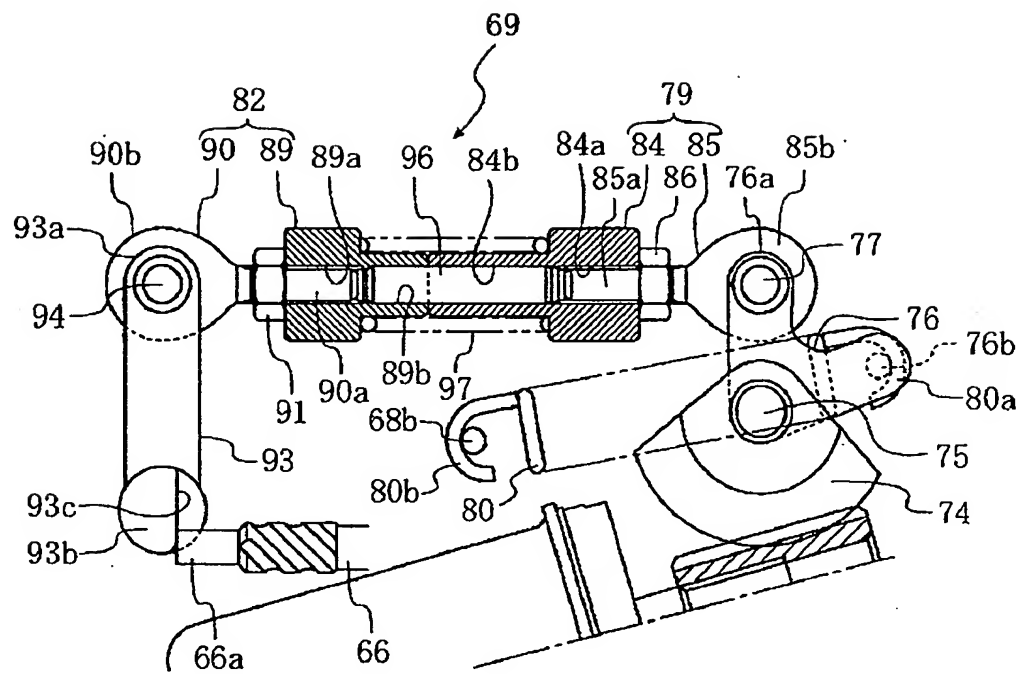
[Fig. 14]



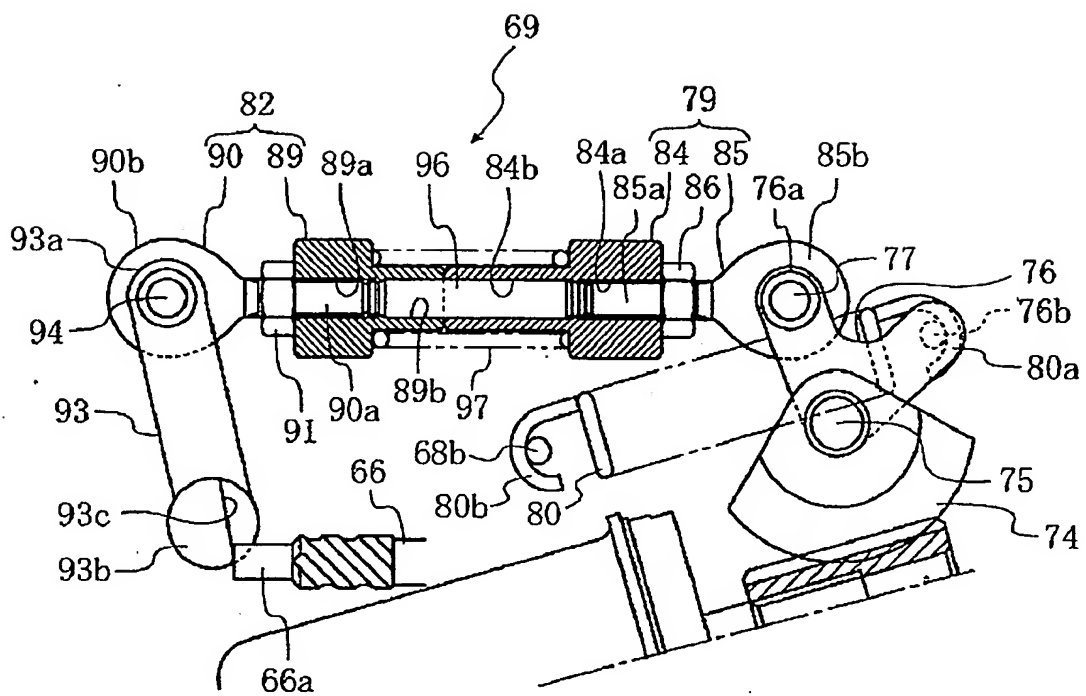
[Fig. 15]



[Fig. 16]

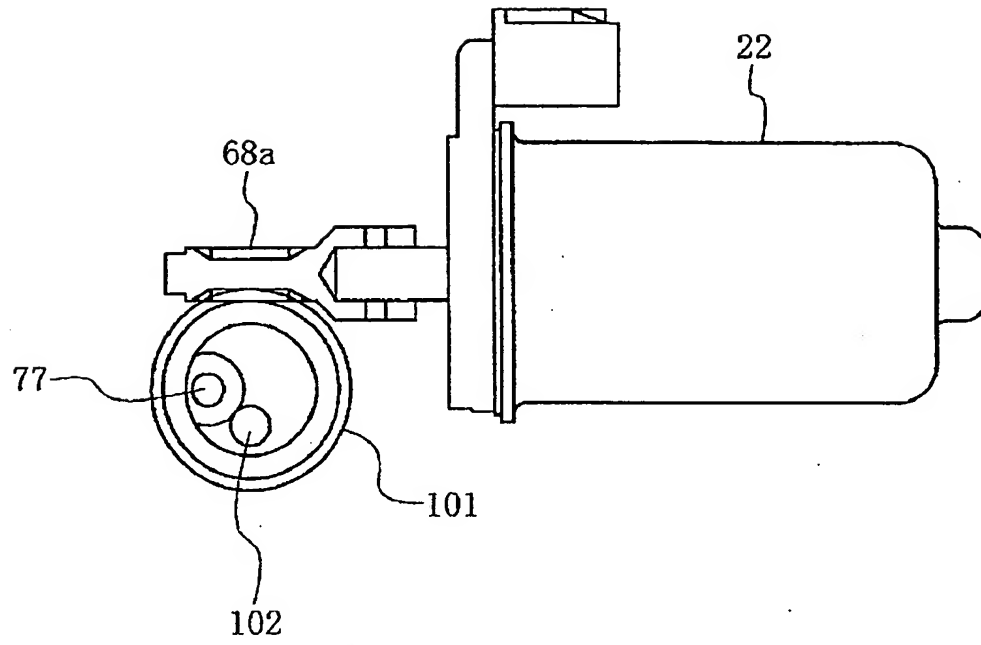


[Fig. 17]

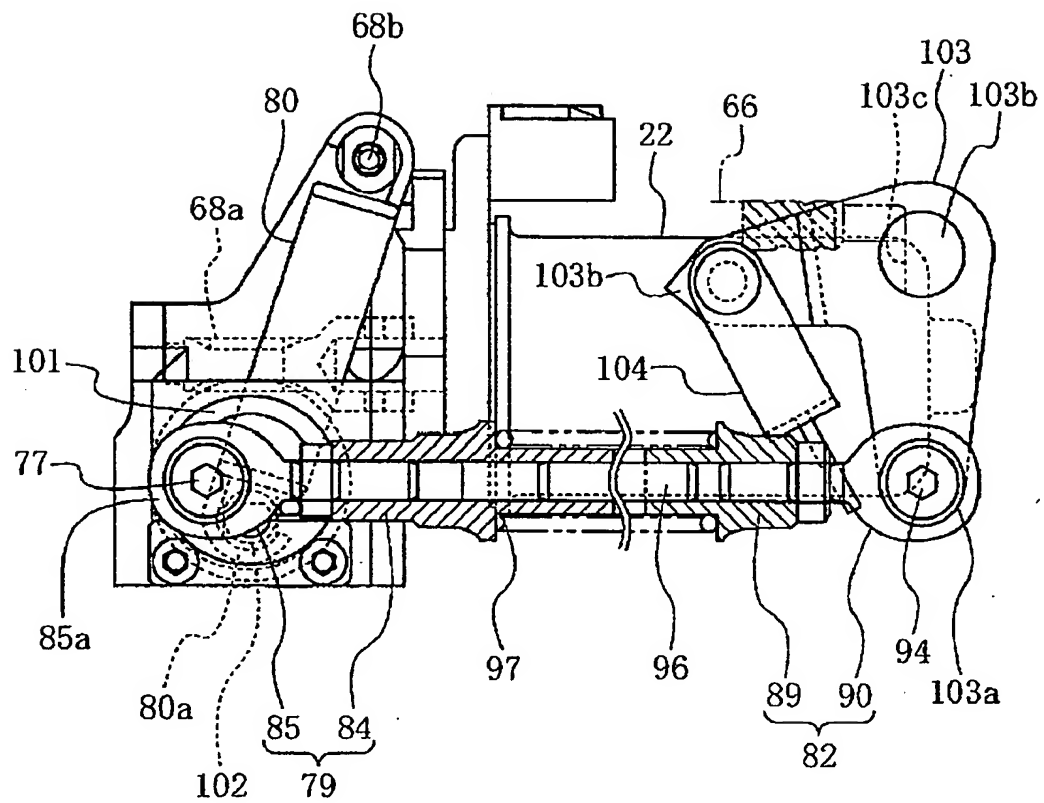




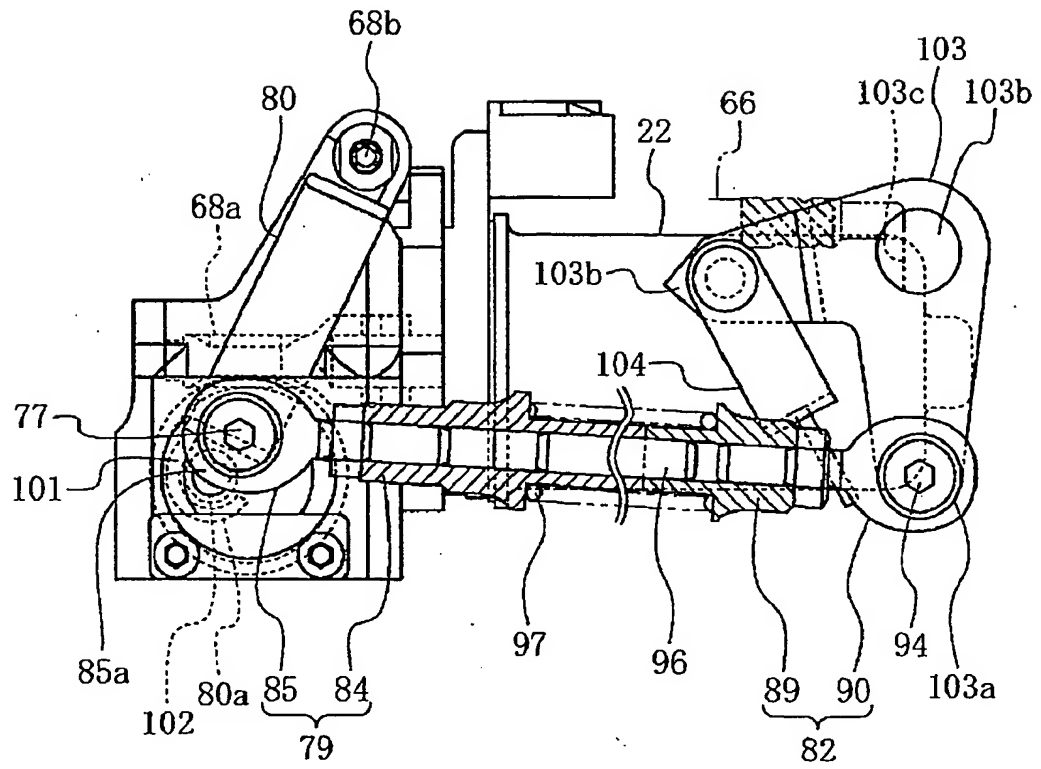
[Fig. 19]



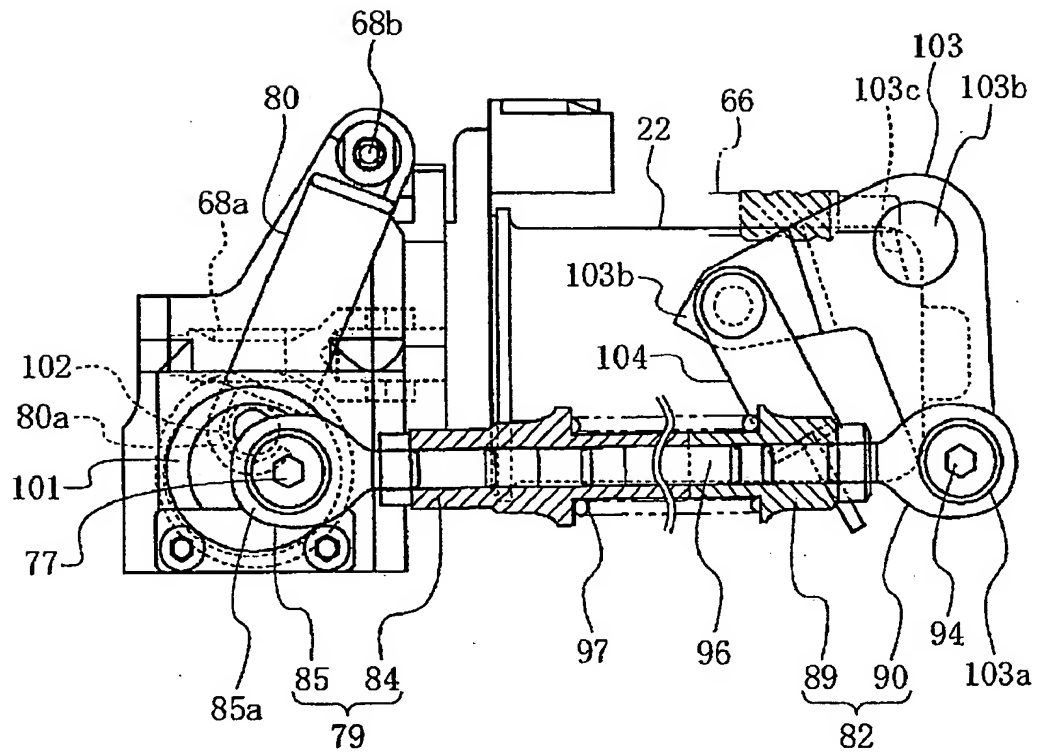
[Fig. 20]



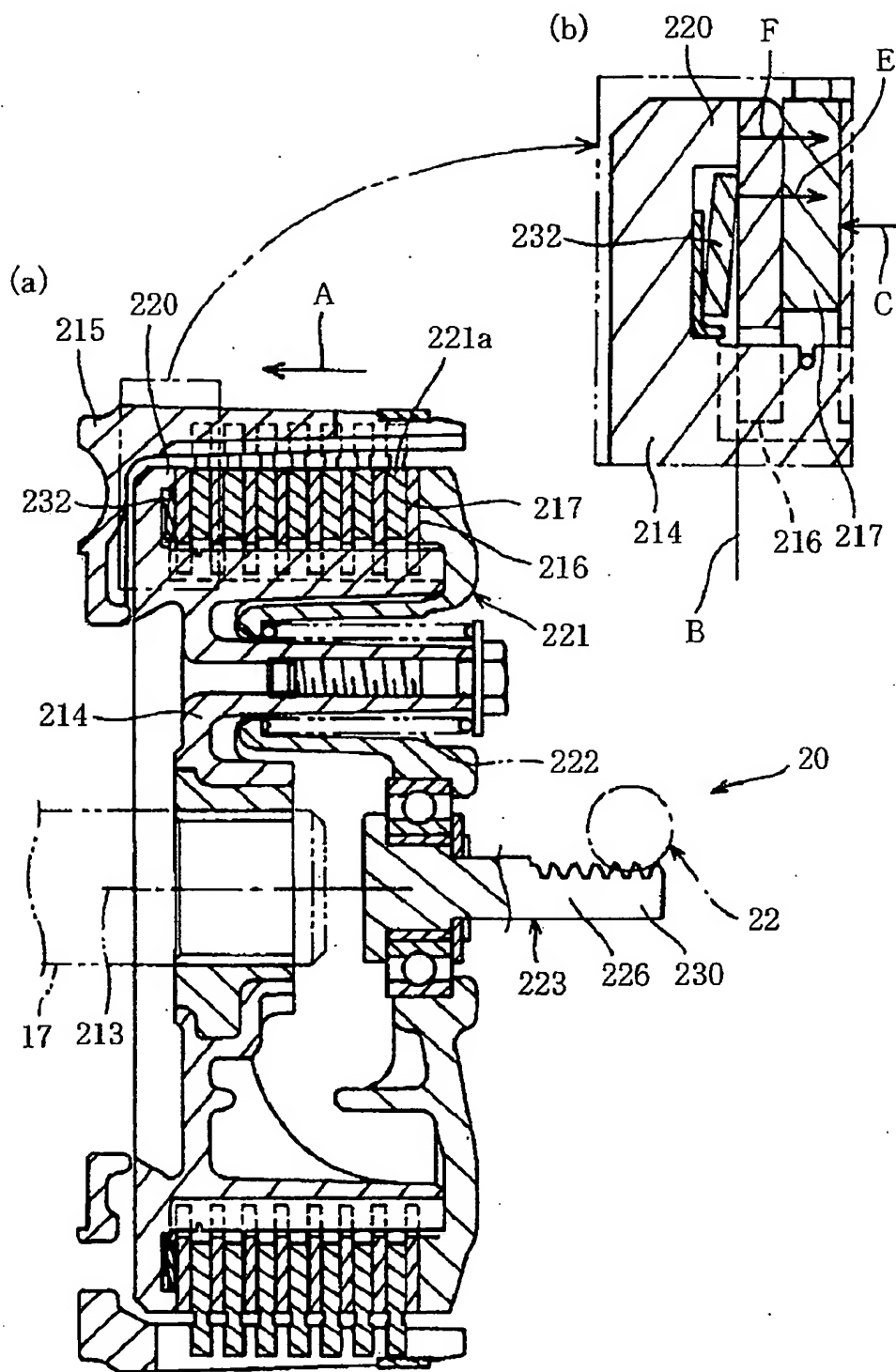
[Fig. 21]



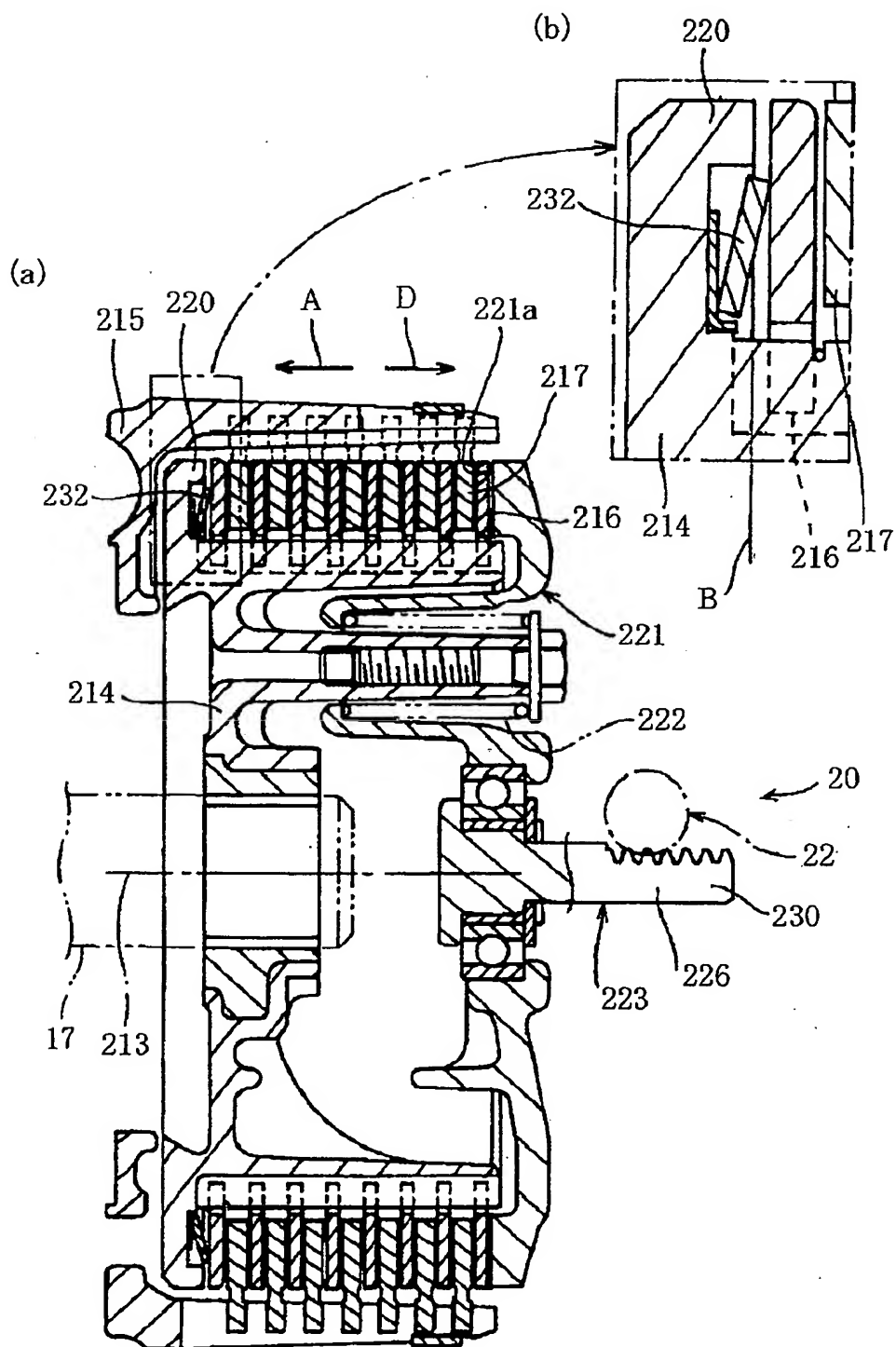
[Fig. 22]



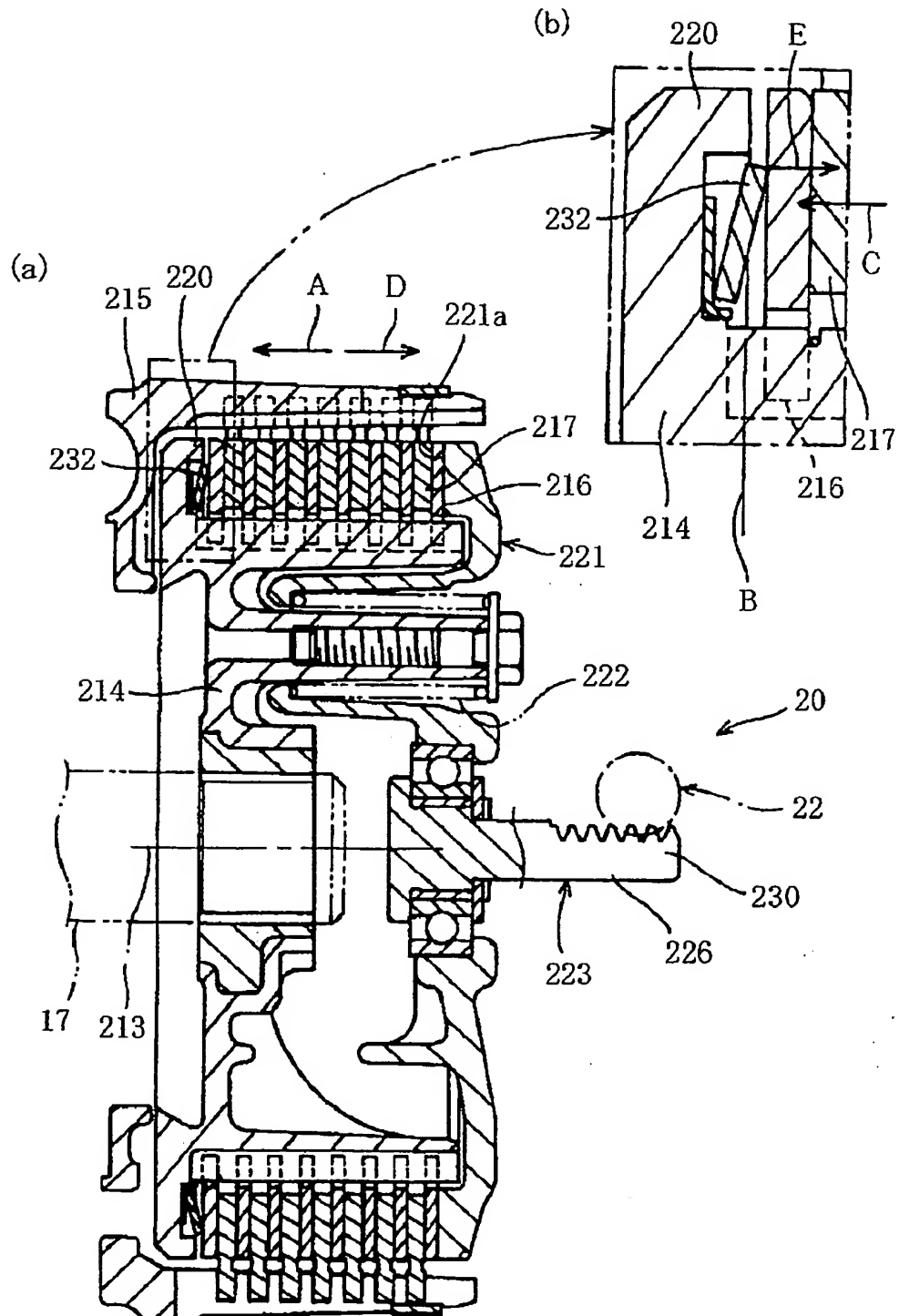
[Fig. 23]



[Fig. 24]



[Fig. 25]



[FIG. 3]

111 ENGINE ROTATIONAL NUMBER SENSOR  
112 VEHICLE SPEED SENSOR  
113 CLUTCH ACTUATOR POSITION SENSOR  
114 SHIFT ACTUATOR POSITION SENSOR  
115 GEAR POSITION SENSOR  
52a UP SWITCH  
52b DOWN SWITCH  
22 CLUTCH ACTUATOR  
32 SHIFT ACTUATOR  
119 GEAR POSITION DISPLAY PORTION  
120 ENGINE IGNITION PORTION  
121 FUEL INJECTION APPARATUS

[FIG. 4]

CLUTCH LEVER STROKE  
CONNECTION  
DISCONNECTION  
PARTIAL CLUTCH ENGAGEMENT RANGE  
LEVER LOAD  
PLAY SECTION  
CLUTCH DISCONNECTION  
CLUTCH DISCONNECTING OPERATION  
CLUTCH CONNECTING OPERATION  
DRIVE SYSTEM FRICTION  
CLUTCH CONNECTION

CLUTCH TRANSMITTING TORQUE

[FIG. 5]

ACTUATOR STROKE

CONNECTION

DISCONNECTION

PARTIAL CLUTCH ENGAGEMENT RANGE (100  $\mu$ M)

CLUTCH TRANSMITTING TORQUE

FULL STALL

CLUTCH IN

[FIG. 6]

ACTUATOR STROKE

CONNECTION

DISCONNECTION

PARTIAL CLUTCH ENGAGEMENT RANGE

CLUTCH TRANSMITTING TORQUE

FULL STALL

CLUTCH IN

[FIG. 7]

(a)

CLUTCH MOTOR POTENTIOMETER

ON

PARTIAL CLUTCH ENGAGEMENT

OFF

(b)

SHIFT MOTOR POTENTIOMETER

SHIFT UP

SHIFT DOWN

(c)

IGNITION TIMING

(d)

GEAR POSITION POTENTIOMETER

(e)

TIME

RUNNING MODE

CLUTCH OFF OPERATION

PARTIAL CLUTCH ENGAGEMENT OPERATION

CLUTCH ON OPERATION

RUNNING MODE

SHIFT UP

[FIG. 8]

(a)

CLUTCH MOTOR POTENTIOMETER

ON

PARTIAL CLUTCH ENGAGEMENT

OFF

(b)

SHIFT MOTOR POTENTIOMETER

SHIFT UP

SHIFT DOWN

(c)

GEAR POSITION POTENTIOMETER

(d)

TIME

RUNNING MODE

CLUTCH OFF OPERATION

PARTIAL CLUTCH ENGAGEMENT OPERATION

CLUTCH ON OPERATION

RUNNING MODE

SHIFT DOWN

[FIG. 9]

(a)

CLUTCH MOTOR POTENTIOMETER

ON

PARTIAL CLUTCH ENGAGEMENT

OFF

SHIFT UP START DETERMINATION

SHIFT UP END DETERMINATION

(b)

SHIFT MOTOR POTENTIOMETER

SHIFT UP

SHIFT DOWN

(c)

GEAR POSITION POTENTIOMETER

(d)

TIME

RUNNING MODE

CLUTCH OFF OPERATION

PARTIAL CLUTCH ENGAGEMENT OPERATION

CLUTCH ON OPERATION

RUNNING MODE

SHIFT DOWN

[FIG. 10]

(a)

CLUTCH MOTOR POTENTIOMETER

ON

PARTIAL CLUTCH ENGAGEMENT

OFF

SHIFT UP IN STARTING

STARTING (AGAIN)

(b)

SHIFT MOTOR POTENTIOMETER

SHIFT UP

SHIFT DOWN

(c)

IGNITION TIMING

(d)

GEAR POSITION POTENTIOMETER

(e)

TIME

STATIONARY MODE

STARTING PARTIAL CLUTCH ENGAGEMENT OPERATION

CLUTCH OFF OPERATION

STARTING PARTIAL CLUTCH ENGAGEMENT OPERATION

CLUTCH ON OPERATION

RUNNING MODE

SHIFT UP

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